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00171	USS - Oil Technology, Inc.
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00132	USS - International Mill Service, Inc.
00335	USS Lead Refinery
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10037	Issued	08-26-1998	CP - Exemption Qualificatio
9568	Issued	09-21-1998	CP - State
9409	Combined	03-31-1998	CP - Administrative Amen
9035	Issued	11-12-1997	CP - Administrative Amen
8606	Issued	10-20-1997	CP - State
8150	Issued	07-22-1997	CP - State
7663	Issued	08-18-2006	Title V
6226	Issued	08-16-1996	CP - Exemption Qualificatio
6225	Issued	08-07-1996	CP - Exemption Qualificatio
4495	Withdrawn	01-23-1997	CP - State
4325	Issued	02-24-1995	CP - Exemption
3663	Issued	05-31-1994	CP - Registration
3494	Withdrawn	01-23-1997	CP - State
3279	Issued	01-10-1994	CP - Registration
2955	Denied	03-25-1994	CP - State
0001	Withdrawn	04-22-1994	CP - Federal PSD
2105	Withdrawn	01-23-1997	CP - State
2800	Withdrawn	01-23-1997	CP - State

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14012	Withdrawn	03-05-2002	T - Significant Source Modification
12880	Issued	07-26-2001	T - Significant Source Modification
12137	Issued	10-16-2000	T - Minor Source Modification
12097	Withdrawn	06-11-2001	T - Minor Source Modification
11980	Withdrawn	07-20-2000	Amendment
11953	Issued	04-05-2000	T - Administrative Amendment
11684	Withdrawn	03-22-2002	Undetermined
11500	Issued	08-03-2001	Exemption
10614	Withdrawn	04-05-1999	T - Significant Source Modification
10551	Issued	02-10-1999	T - Minor Source Modification
10160	Issued	01-13-2000	T - Minor Source Modification
10095	Issued	09-21-1998	CP - Exemption Qualification
10037	Issued	08-26-1998	CP - Exemption Qualification
9568	Issued	09-21-1998	CP - State
9409	Combined	03-31-1998	CP - Administrative Amendment
9035	Issued	11-12-1997	CP - Administrative Amendment
8606	Issued	10-20-1997	CP - State
8150	Issued	07-22-1997	CP - State
7663	Issued	08-18-2006	Title V

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18862	Issued	05-27-2004	Review Request
18396	Withdrawn	07-22-2004	T - Significant Source Modification
17041	Combined	06-23-2004	T - SPM - NOx Budget Permit
16676	Issued	02-11-2003	Review Request
15694	Issued	08-21-2002	T - Minor Source Modification
16365	Issued	09-16-2004	RR - 112(j) Applicability Determination
15929	Issued	06-20-2002	Exemption
15358	Issued	03-22-2002	Review Request
15090	Combined	03-05-2002	T - Minor Source Modification
15121	Issued	03-14-2002	T - Minor Source Modification
14988	Issued	07-19-2002	T - Significant Permit Modification
14972	Withdrawn	04-08-2002	T - Significant Permit Modification
14950	Issued	11-30-2001	T - Administrative Amendment
14692	Issued	12-17-2001	Exemption
14649	Issued	08-23-2001	Review Request
14647	Canceled	04-22-2002	A - Name Change - No fee
14658	Issued	10-02-2001	T - Minor Source Modification
14424	Issued	08-02-2001	T - Minor Source Modification
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00335	USS Lead Refinery
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26519	Public Notice	07-01-2008	T - SPM - CAIR
26246	Issued	04-24-2008	T - Administrative Amendment
26215	Combined	03-26-2008	T - Administrative Amendment
25923	Issued	02-25-2008	T - Administrative Amendment
23680	Issued	10-22-2007	APPR - Title V - SPM
23493	Withdrawn	02-12-2007	T - Significant Source Modification
23434	Combined	09-21-2006	Undetermined
21983	Withdrawn	11-30-2005	Exemption
21298	Combined	06-14-2005	Undetermined
21569	ECR-RR	12-06-2005	ECR - RR - Transfer of Credit
21232	Combined	06-14-2005	Undetermined
201181	Issued	06-16-2005	T - Interim
20518	Withdrawn	07-18-2006	T - Significant Permit Modification
19709	Issued	05-02-2005	T - Significant Source Modification
20118	Issued	10-20-2005	T - Significant Source Modification
19678	Issued	10-29-2004	T - Significant Source Modification
19167	Withdrawn	09-17-2004	T - Significant Source Modification
18862	Issued	05-27-2004	Review Request

<ADD NEW APP>

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T - Administrative Amend

T - Administrative Amendment

T - Administrative Amendment

APPR - Title V - SPM

T - Significant Source Model

Undetermined

Exemption

Undetermined

ECR - RR - Transfer of Cred

Undetermined

T - Interim

T - Significant Permit Modification

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Review Request

000003



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NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Permit Modification to a
Part 70 Operating Permit

for US Steel - Gary in Lake County

Significant Permit Modification No. 089-26519-00121

The Indiana Department of Environmental Management (IDEM), has received an application from US Steel - Gary Works located at 1 North Broadway, Gary, Indiana 46402 for a significant permit modification of their Part 70 Operating Permit issued on August 16, 2006. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow US Steel - Gary Works to make certain changes at their existing source. US Steel - Gary Works has applied for the Clean Air Interstate (CAIR) Nitrogen Oxides Ozone Season Trading Program (326 IAC 24).

This draft significant permit modification does not contain any new equipment that would emit air pollutants; however, some conditions have been added. This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow for these changes.

A copy of the permit application and IDEM's preliminary findings are available at:

City of Gary Public Library
220 West 5th Avenue
Gary, IN 46402

and

Indiana Department of Environmental Management
Northwest Regional Office
8315 Virginia St, Suite 1
Merrillville, IN 46410

A copy of the preliminary findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

How can you participate in this process?

The date that this notice is published in a newspaper marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing,

DRAFT

- (2) No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.
- (3) One (1) Slag Pit, identified as IBSP0335, with fugitive emissions.
- (e) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 183 tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute.
 - (1) Four (4) No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 325 MMBtu per hour total, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.
 - (2) No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.
 - (3) One (1) Slag Pit, identified as ICSP0363, with fugitive emissions.
- (f) No. 14 Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using pulverized coal injected at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute.
 - (1) Three (3) No. 14 Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 700 MMBtu per hour total, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184;
 - (2) No. 14 Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187 and fugitive emissions exhausting through the casthouse roof monitor ID6013;
 - (3) One (1) Slag Pit, identified as IDSP0371, with fugitive emissions.
 - (4) Pursuant to Significant Source Modification 089-20118-00121, issued October 20, 2005, the following activities involved in the No. 14 Blast Furnace Reline Project were approved for construction:
 - (A) Replacement of furnace refractory lining with new and thinner refractory brick.
 - (B) Replacement of furnace shell.
 - (C) Removal and replacement of the top charging system with a new "bell-less" charging system.
 - (D) Placement of new copper staves in the mantle area of the furnace.
 - (E) Installation of copper cooling plates and a new bustle pipe.
 - (F) Repair of the checker work brick in the stoves and various structural, mechanical and electrical repairs.
 - (G) Enlargement of the slag granulator and addition of a stack.

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- (H) Changes to the casthouse and casthouse emissions control system to improve capture efficiency of hoods at the tap holes, iron troughs and runners.
- (I) Removal and replacement of the existing system for cleaning blast furnace gas with a more efficient scrubbing system.
- (g) One (1) No. 14 Blast Furnace Slag Granulation Plant owned by US Steel -Gary Works and operated by US Steel - Gary Works as part of the slag processing operation. The granulation plant has a maximum capacity of 1,704,000 tons of steel mill slag per year, consisting of the following:
 - (1) One (1) hot slag quenching operation, constructed in 1991, directed to a hooded exhaust stack.
 - (2) Two (2) silos, constructed in 1991, for temporary slag storage.
 - (3) Two (2) belt conveyers, constructed in January 1995.
 - (4) One (1) storage silo and loadout bay, constructed in May 1995, with a capacity of 400,000 tons per year.
- (h) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess blast furnace gas to the three (3) bleeder stacks equipped with Flare No. 1 identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.
- (i) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378.
- (j) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375.

Number One Basic Oxygen Process (BOP) Shop

- (a) Two (2) Stations, identified as No. 1 and No. 2, Hot Metal Transfer and Desulfurization Stations. The Desulfurization Stations were originally constructed in 1981 and the Hot Metal Transfer Stations were originally constructed in 1965, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSDS0201, Hot Metal Transfer SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.
- (b) One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of 80 tons per hour. Emissions are controlled by No.1, No. 2 and No. 3 baghouses SS3058, SS3059, and SS3053. Nos.1 and 2 exhaust inside the building and No. 3 discharges through stack SS6056.
- (c) Basic Oxygen Process (BOP) Vessels, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by open combustion hoods and an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

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Mr. James Alexander
U.S. Steel - Gary Works
One North Broadway
Gary, IN 46402

April 24, 2008

Re: T089-26246-00121
Second Administrative Amendment to
Part 70 Permit No. T089-7663-00121

Dear Mr. Alexander:

U.S. Steel - Gary Works was issued a Part 70 Operating Permit on August 18, 2006 for an integrated steel mill. Gary Coal Processing, LP, source ID 089-00169, has previously been permitted as part of the same major source as US Steel - Gary Works, source ID 089-00121. They were issued separate permits solely for administrative purposes. US Steel - Gary Works will be taking over operation of Gary Coal Processing, LP and has requested the Gary Coal Processing, LP permit to be incorporated into the U.S. Steel - Gary Works permit. The current Gary Coal Processing, LP permit will be revoked upon completion of this permit transfer to US Steel - Gary Works.

Pursuant to the provisions of 326 IAC 2-7-11, the permit is hereby administratively amended as follows (deletions are marked with a ~~strikeout~~ and the new information is in **bold**):

- (a) The entire Section D and the applicable Quarterly Report forms of the Gary Coal Processing, LP permit has been incorporated into the US Steel -Gary Works permit under Section E. The Section A listings and the Quarterly Reports have been revised accordingly. The typographical errors to the formula under E.3.2(a)(1)(A) have been corrected. The existing Nitrogen Oxide Budget Source information under Section E has been revised to Section F.
- (b) Brandenburg Industrial Service Company, source ID 089-00176, had previously been permitted as part of the same major source as US Steel - Gary Works, source ID 089-00121. They were issued separate permits solely for administrative purposes. IDEM, OAQ examined whether these two plants should remain combined as one "major source" as defined in 326 IAC 2-7-1(22). In order for these two plants to be considered one major source, they must meet all three of the following criteria:
- (1) the plants must be under common ownership or common control;
 - (2) the plants must have the same two-digit Standard Industrial Classification (SIC) Code, or one must serve as a support facility for the other; and
 - (3) the plants must be located on contiguous or adjacent properties.

Brandenburg Industrial Service Company is an on-site contractor for US Steel - Gary Works that processes scrap steel. Brandenburg Industrial Service Company's revenue from US Steel - Gary Works in 2006 was approximately 7% of its total revenue. From 2003 to 2006, US Steel - Gary Works accounted for less than 17% of Brandenburg Industrial Service Company's total revenue. Most of Brandenburg Industrial Service Company's output goes to sources other than US Steel - Gary Works.

IDEM's Nonrule Policy Document Air-006-NPD states that an on-site contractor is presumed to be part of the primary source if the contractor supplies a majority of its goods or services to the primary source. This presumption may be rebutted by showing that the on-site contractor does not provide a majority of its output to the primary source. Brandenburg Industrial Service Company has demonstrated that it no longer provides a majority of its goods or services to US Steel - Gary Works. US Steel - Gary Works and Brandenburg Industrial Service Company do not have a common owner, and there appears to no longer be any common control.

US Steel - Gary Works has the two digit SIC Code of 33 for Primary Metal Industries. Brandenburg Industrial Service Company has the two digit SIC Code of 50 for Wholesale Trade-durable Goods. Brandenburg Industrial Service Company supplies less than 50% of its output to US Steel - Gary Works. The two plants have different two digit SIC Codes and there is no support relationship. US Steel - Gary Works and Brandenburg Industrial Service Company are located on contiguous properties at One North Broadway in Gary.

IDEM, OAQ finds that Brandenburg Industrial Service Company and US Steel - Gary Works are no longer part of the same major source. Each plant will be permitted as a separate source. Therefore, U.S. Steel - Gary Works' Part 70 Operating Permit No. T089-7663-00121 is being revised to remove Brandenburg Industrial Service Company, Plant ID 089-00176, located at One North Broadway, Gary, Indiana 46402 from Section A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]. This update is considered a descriptive change and will not trigger a new applicable requirement or violate a permit term.

- (c) Koppers, Inc. is no longer operating at the coke plant. AKJ Industries, Inc., plant Id 089-00505, has taken its place. Section A.2 has been revised accordingly.

Pursuant to the provisions of 326 IAC 2-7-11, the permit is hereby administratively amended as follows (deletions are marked with a ~~strikeout~~ and the new information is in **bold**):

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This integrated steel mill consists of a main mill and ~~nine (9)~~ **eight (8)** on-site contractors:

- (a) U. S. Steel - Gary Works, plant Id 089-00121, the primary operation, located at One North Broadway, Gary, Indiana 46402;
- (b) ~~Brandenburg Industrial Service Company, plant Id 089-00176, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;~~
- (e) (b) Central Teaming Company, plant Id 089-00172, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;
- (d) ~~Gary Coal Processing, LP, plant Id 089-00169, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;~~
- (e) (c) Heckett Multiserv, plant Id 089-00170, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;
- (f) (d) International Mill Service, Inc., plant Id 089-00132, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;
- (g) (e) **AKJ Industries, Inc., plant Id 089-00505**, ~~Koppers, Inc., plant Id 089-00180~~, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;
- (h) (f) Levy- Indiana Slag Company, plant Id 089-00133, the on-site contractor, located at One North Buchanan Street, Gary, Indiana 46401;

- (g) Mid-Continent Coal and Coke Company, plant Id 089-00173, the on-site contractor, located at One North Broadway, Gary, Indiana 46402;
- (h) Tube City, Inc., plant Id 089-00174, the on-site contractor, located at One North Broadway, Gary, Indiana 46401;
- (i) U.S. Aggregates, Inc., plant Id 089-05256, the on-site contractor, located at One North Broadway, Gary, Indiana 46402.

Separate Part 70 permits will be issued to US Steel - Gary Works and each on site contractor, solely for administrative purposes.

Company Name	Part 70 Permit Number
U.S. Steel - Gary Works	089-7663-00121
Brandenburg Industrial Service Company	089-8013-00176
Central Teaming Company, Inc.	089-7684-00172
Gary Coal Processing, LP	089-7171-00169
Heckett Multiserv	089-7649-00170
International Mill Service, Inc.	089-5630-00132
Keppers, Inc. AKJ Industries, Inc.	089-13872-00180 089-22772-00505
Levy-Indiana Slag Company	089-7719-00133
Mid-Continent Coal and Coke Company	089-8064-00173
Tube City, Inc.	089-7648-00174
U.S. Aggregates, Inc.	089-21828-05256

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]

The integrated steel mill, US Steel-Gary Works consists of the following:

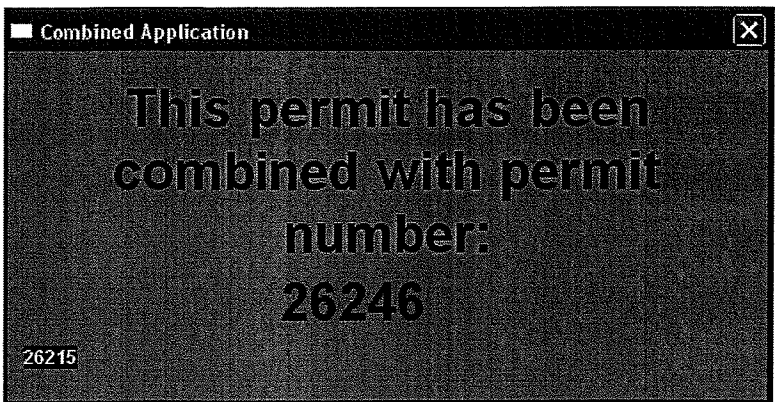
...

Coal Pulverization and Air Preheater System

- (a) One (1) coal pulverization equipment train, identified as SS-1 that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 1A, 1B and 1C.
- (b) One (1) coal pulverization equipment train, identified as SS-2 that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 2A, 2B and 2C.
- (c) One (1) coal pulverization equipment train, identified as SS-3 that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 3A, 3B and 3C.

Pulverized Coal Storage and Feed System

- (a) One (1) Pulverized coal Transport, identified as Line A, constructed in 1993, with a



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Mr. James Alexander
U.S. Steel - Gary Works
One North Broadway
Gary, IN 46402

February 25, 2008

Re: 089-25923-00121
First Administrative Amendment to
Part 70 089-7663-00121

Dear Mr. Alexander:

U.S. Steel - Gary Works was issued a Part 70 Operating Permit on August 18, 2006 for an integrated steel mill. A letter requesting the slag granulator operation currently listed under Levy - Indiana Slag Company's permit to be moved to the Section D.7 of U.S. Steel - Gary Works' permit was received on January 17, 2008. U.S. Steel - Gary Works and Levy - Indiana Slag Company are considered one source. They were issued separate permits solely for administrative purposes. Therefore, moving the slag granulator operation from Levy - Indiana Slag Company's permit to Section D.7 of U.S. Steel - Gary Works' permit is considered a descriptive change. Pursuant to the provisions of 2-7-11 the permit is hereby administratively amended as follows:

- (1) *Levy - Indiana Slag Company - Section A.3 Emission Units and Pollution Control Equipment Summary, Section D.2, Table of Contents, and associated reporting forms have been updated to remove the slag granulation plant from Part 70 Operating Permit No. T089-7719-00133 as follows:*

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]

Levy- Indiana Slag Company consists of the following:

Slag crushing, screening and conveying Plant

...

Slag Granulation Plant

~~One (1) No. 14 Blast Furnace Slag Granulation Plant owned by US Steel - Gary Works and operated by Levy - Indiana Slag as part of the slag processing operation. The granulation plant has a maximum capacity of 1,704,000 tons of steel mill slag per year, consisting of:~~

~~(a) One (1) hot slag quenching operation, constructed in 1991, directed to a hooded exhaust stack.~~

~~(b) Two (2) silos, constructed in 1991, for temporary slag storage.~~

- ~~———— (c) ——— Two (2) belt conveyers, constructed in January 1995.~~
- ~~———— (d) ——— One (1) storage silo and loadout bay, constructed in May 1995, with a capacity of 400,000 tons per year.~~

Section D.2 — Facility Operations

Facility Description [326 IAC 2-7-5(15)]: ~~One (1) No. 14 Blast Furnace Slag Granulation Plant owned by US Steel Gary Works and operated by Levy Indiana Slag as part of the slag processing operation. The granulation plant has a maximum capacity of 1,704,000 tons of steel mill slag per year, consisting of the following:~~

- ~~(a) — One (1) hot slag quenching operation, constructed in 1991, directed to a hooded exhaust stack.~~
- ~~(b) — Two (2) silos, constructed in 1991, for temporary slag storage.~~
- ~~(c) — Two (2) belt conveyers, constructed in January 1995.~~
- ~~(d) — One (1) storage silo and loadout bay, constructed in May 1995, with a capacity of 400,000 tons per year.~~

~~(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)~~

Emissions Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 — Emission Offset Minor Limitation [326 IAC 2-3]

~~Pursuant to Construction Permit 089-2936-00133, issued July 2, 1993 and 326 IAC 2-3 (Emission Offset), the total granulation plant throughput shall not exceed 1,704,000 tons per 12 consecutive month period with compliance demonstrated at the end of each month. Therefore, the emission offset rule 326 IAC 2-3 does not apply.~~

D.2.2 — Particulate Emission Limitation [326 IAC 6.8-1-2(a)]

~~Pursuant to Construction Permit 089-1953-00133, issued March 18, 1991 and 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), the particulate matter emissions from the slag granulation process quenching hooded exhaust stack shall not exceed 0.03 grain per dry standard cubic foot (dscf).~~

D.2.3 — Preventive Maintenance Plan [326 IAC 2-7-5(13)]

~~A Preventive Maintenance Plan, in accordance with Section B — Preventive Maintenance Plan, of this permit, is required for the slag granulation process operations.~~

Compliance Determination Requirements

D.2.4 — Fugitive Dust Control

~~The dust suppression used as control for the fugitive particulate emissions from the granulation plant shall be applied as often as necessary to control fugitive dust.~~

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Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Mr. James Alexander
US Steel - Gary Works
One N. Broadway Street
Gary, IN 46402

October 22, 2007

Re: 089-23680-00121
Significant Permit Modification to
Part 70 No.: T 089-7663-00121

Dear Mr. Alexander:

US - Gary Works was issued a permit on August 18, 2006 for an integrated steel mill. A petition for administrative review was received on November 1, 2006. In order to resolve the appealed permit terms and conditions, pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of changes to appealed permit conditions. On September 22, 2006, US Steel - Gary Works requested to add new language to the Preventative Maintenance Plan (PMP) conditions, revise the language for testing and recordkeeping requirements and revise the hourly limit for sulfur dioxide (SO₂) for No. 5 Coke Oven Battery Underfiring stack. This permit modification incorporates the changes as required by the Stay Agreement that became effective on August 21, 2006. In addition, all references and requirements of 40 CFR 63 Subpart DDDDD have been removed from the permit due to the vacature by the U.S. Court of Appeals.

All other conditions of the permit shall remain unchanged and in effect. Please find attached a copy of the entire revised permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Jamal Naas OAQ, 100 North Senate Avenue, Indianapolis, Indiana 46204 or call at (800) 451-6027, ask for extension 3-5176, or dial (317) 234-5176.

Sincerely,

Original signed by
Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

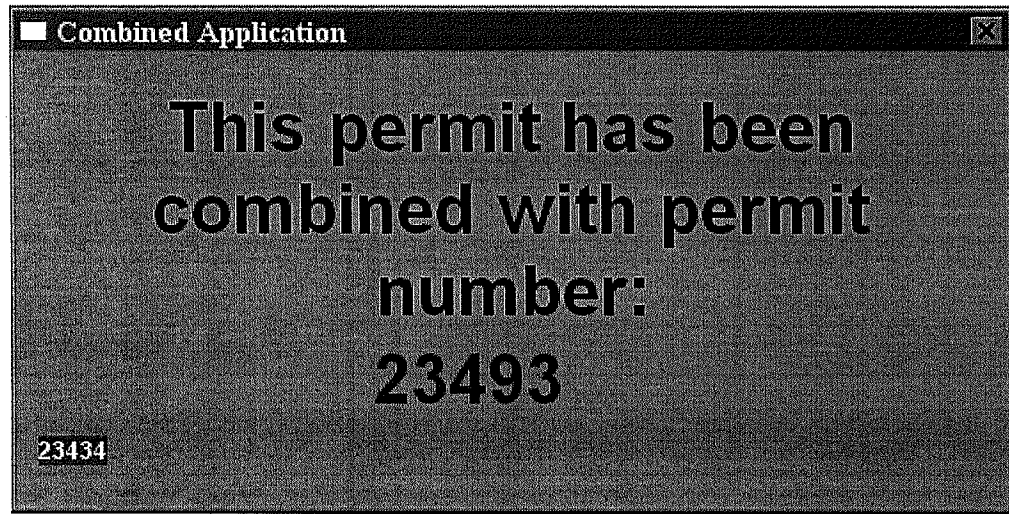
Attachments

JNN

cc: File - Lake County
U.S. EPA, Region V
Lake County Health Department
Air Compliance Section Inspector
Compliance Data Section
Administrative and Development
Deputy Attorney General - Justin Barrett

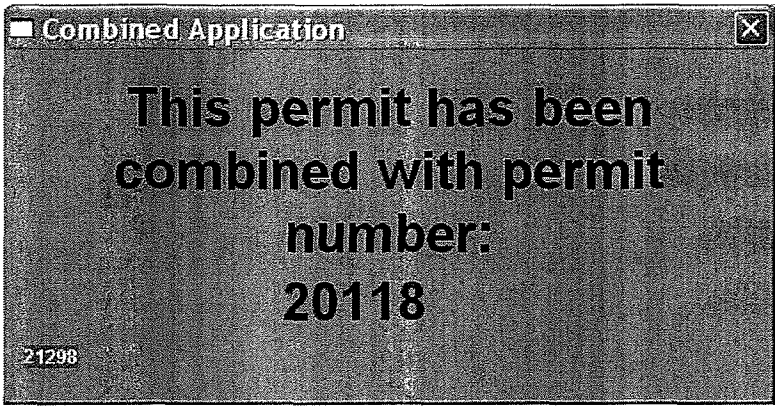
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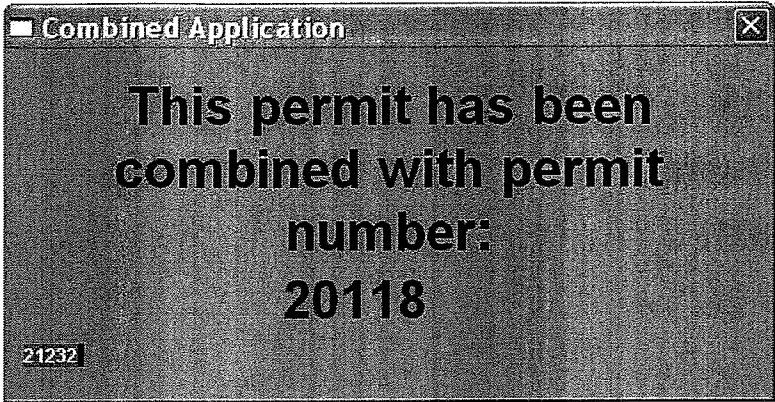
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TO: Interested Parties / Applicant

DATE: June 16, 2005

RE: U.S. Steel Gary Works / 089-201181-00121

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER.dot 1/10/05



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(800) 451-6027
www.IN.gov/idem

November 1, 2007

Mr. James Alexander
U.S. Steel Gary Works
One North Broadway
Gary, IN 47402

Re: Interim Significant Source
Modification Petition
089-20118I-00121

Dear Mr. Alexander:

On May 9, 2005, the Office of Air Quality (OAQ) received an interim significant source modification petition from U.S. Steel Gary Works, located at One North Broadway, Gary, Indiana for the reline of Blast Furnace No. 14.

Public notice of the interim significant source modification petition was published on May 13, 2005. The public comment period ended on May 29, 2005. Since there are no comments received during the public comment period, pursuant to 326 IAC 2-13-1(i), the interim significant source modification petition is in effect on May 30, 2005 and expires on the effective date of the final significant source modification permit. The interim significant source modification petition may be revoked after this effective date upon a written finding by the Indiana Department of Environmental Management (IDEM) that any of the reasons for denial in 326 IAC 2-13-1(h) exist or if the final significant source modification permit is denied. The IDEM has reviewed this interim significant source modification petition and has not found any such reason. The facilities specified in the interim significant source modification petition may not operate until the final significant source modification permit is issued by OAQ.

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The interim significant source modification petition is federally enforceable. Detailed construction and operation conditions will be specified in the final significant source modification permit 089-20118-00121.

If you have any questions regarding this interim significant source modification petition, please contact Mack Sims of my staff at 317-233-0867, or at 1-800-451-6027 (ask for extension 3-0867).

Sincerely,
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

sims

Enclosure: Interim Permit Evaluation (3 pages)

cc: File - Lake County
Lake County Health Department
Gary Department of Environmental Affairs
Northwest Regional Office
Air Compliance Section Inspector - Rick Massoels
Permit Tracking

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**Indiana Department of Environmental Management
Office of Air Quality**

**Interim Significant Permit Revision/ Significant Source Modification
Evaluation Sheet**

Company Name: U.S. Steel Gary Works		
Location: One North Broadway, Gary, IN 47402		Permit No: 089-201181-00121
Permit Reviewer: Mack Sims	Date Receipt of Application: 05/09/05	Date of Review: 06/03/05
Description of the interim construction: Reline Blast Furnace No. 14		
Public Notice Date + 17 days = 05/29/05		
Date the Application was received + 19 days = 05/27/05		

Interim Petition Applicability: 326 IAC 2-13-1

- (a) Existing Source with valid permit;
- (b) Exemptions:
 - (1) construction of a PSD source or PSD modification;
 - (2) construction or modification in nonattainment area that would emit those pollutants for which the nonattainment designation is based.
 - (3) any modification subject to 326 IAC 2-4.1.
- (c) Public notice comment period is 14 calendar days.

Instructions: Check (✓) appropriate answers and make a recommendation.

1. Did the applicant submit a written petition for an interim permit?
 ✓ Yes Go to question 2.
 ___ No Ignore verbal request.
2. Did the applicant pay the \$500 interim permit fee?
 ✓ Yes Go to question 3.
 ___ No Deny the application, pursuant to 326 IAC 2-13-1(c)(1).
3. Did the applicant state acceptance of federal enforceability of an interim permit?
 ✓ Yes Go to question 4.
 ___ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(D).
4. Did the applicant or its authorized agent sign the application?
 ✓ Yes Go to question 5.
 ___ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(E).

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5. Did the applicant submit a notarized affidavit stating that the applicant will proceed at its own risk (if the interim permit is issued), including, but not limited to:
- (a) Financial risk,
 - (b) Risk that additional emission controls may be required,
 - (c) Risk that the final permit may be denied.
- ☒ Yes Go to question 6.
☐ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(F).
6. Did the applicant begin construction prior to submitting the interim permit application?
- ☐ Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(6).
☒ No Go to question 7.
7. What is the type of the interim construction?
- ☐ New Source Deny the application, pursuant to 326 IAC 2-13-1(a)
☒ Modification to an existing source Go to question 8.
8. Did the applicant present data in the interim permit that is sufficient to determine PSD, NSPS, NESHAP, and state rule compliance?
- ☒ Yes Go to question 9.
☐ No Deny the application pursuant to:
326 IAC 2-13-1(c)(2)(B), for PSD ;
326 IAC 2-13-1(c)(2)(C), for NSPS or NESHAP;
326 IAC 2-13-1(c)(2)(C), for state rules.
9. Is the proposed modification to be located in a nonattainment area?
- ☒ Yes Go to question 10.
☐ No Go to question 11. County: Lake County
10. Will the proposed modification emit the pollutant for which the area is nonattainment in quantities exceeding the levels of emissions that require a permit revision for that pollutant?
- ☐ Yes Deny the application, pursuant to 326 IAC 2-13-1(a)(2).
☒ No Go to question 11.
11. Did the petition include a complete description of the process?
- ☒ Yes Go to question 12.
☐ No Deny the petition, pursuant to 326 IAC 2-13-1(c)(2).
12. Did the interim permit petition contain conditions accepting either emission controls (baghouse, afterburners, scrubbers, etc.) or enforceable limits or other suitable restriction to avoid PSD applicability; as well as control parameters (incinerator operating temperature, baghouse pressure drop, etc.)? The specific limits must be explicitly spelled out (i.e.: The gas consumption of the boiler shall not exceed 29 million cubic feet per month.) A statement such as that the company agrees to conditions such that PSD rules are not applicable is not acceptable.
- ☒ Yes Go to question 13.
☐ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).
13. Do the emission controls and/or throughput limits prevent PSD applicability?
- ☒ Yes Go to question 14.
☐ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).
14. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable New Source Performance Standards (NSPS) (40 CFR 60)?
- ☒ Yes Go to question 15.
☐ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).

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15. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable National Emission Standards for Hazardous Air Pollutants (NESHAP)?
☒ Yes Go to question 16.
☐ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
16. Will the modification, after application of all emission controls and/or throughput limitations, comply with all applicable state rules?
☒ Yes Go to question 17.
☐ No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
17. Does the applicant dispute applicability of any applicable state or federal rule?
☐ Yes Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
☒ No Go to question 18.
18. Is there good reason to believe that the applicant does not intend to construct in accordance with the interim permit petition?
☐ Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(1).
☒ No Go to question 19.
19. Is there good reason to believe that information in the petition has been falsified?
☐ Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(7).
☒ No Approve the interim permit petition.
20. Has the petition been adequately public noticed? A proof of publication copy is necessary.
☒ Yes Go to question 21.
☐ No Deny the application, pursuant to 326 IAC 2-13-1(e).

Newspaper: The Post Tribune

Date of publication: May 13, 2005

21. Were comments received within seventeen (17) days after the public notice of the interim permit? (14 calendar days for comment period + 3 working days for mailing)
☐ Yes Evaluate the comments received, and make a recommendation.
☒ No Issue the final interim permit approval.

Comments:

Recommendation: APPROVE INTERIM PETITION

Date the applicant was informed of the decision: 06/04/05

Method of informing the applicant: By Email

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TO: Interested Parties / Applicant

DATE: May 2, 2005

RE: US Steel - Gary Works / 089-19709-00121

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER.dot 1/10/05

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May 2, 2005

Mr. James Alexander
U. S. Steel – Gary Works
One North Broadway Street
Gary, Indiana 46402

Re: Significant Source Modification No:
089-19709-00121

Dear Mr. Alexander:

U. S. Steel – Gary Works applied for a Part 70 operating permit on December 13, 1996 for blast furnaces and steel mills. An application to modify the source was received on October 8, 2004. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

- (a) This project consists of reconfiguring the fuel supply piping at the four (4) slab reheat furnaces at the 84-inch Hot Strip Mill to enable the firing of coke oven gas, in conjunction with natural gas, above and below the slabs in the heating zones of each furnace. Currently, only the pre-heat and soak zones are able to burn coke oven gas. By enabling the conversion from natural gas to coke oven gas, there will be a reduction in the source operating costs because the coke oven gas, a byproduct of the coke-making process, is produced at the source while the natural gas is purchased from off-site sources. However, the maximum coke oven gas flow capability to the four (4) slab reheat furnaces will remain limited by the supply header to 1.044 MMSCF per hour.
- (b) The furnaces and the associated burners will not be modified, and there is no increased utilization or increased capacity in processes either upstream or downstream of the furnaces. The project is intended to increase the actual consumption of by-product coke oven gas (which is currently flared or burned at the plate mill), and decrease the actual consumption of purchased natural gas at the reheat furnaces.

The proposed Significant Source Modification approval will be incorporated into the pending Part 70 permit application pursuant to 326 IAC 2-7-10.5(l)(3). If there are no changes to the proposed construction of the emission units, the source may begin operating on the date that IDEM receives an affidavit of construction pursuant to 326 IAC 2-7-10.5(h). If there are any changes to the proposed construction the source can not operate until an Operation Permit Validation Letter is issued.

Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Sanobar Durrani, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7810 to speak directly to Ms. Durrani. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204, or call (800) 451-6027, and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original Signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ERG/SD

cc: File – Lake County
U.S. EPA, Region V
Lake County Health Department
Gary Department of Environmental Affairs
Northwest Regional Office
Air Compliance Section Inspector – Rick Massoels
Compliance Data Section
Administrative and Development
Technical Support and Modeling - Michele Boner

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PART 70 SIGNIFICANT SOURCE MODIFICATION OFFICE OF AIR QUALITY

**U. S. Steel – Gary Works
One North Broadway Street
Gary, Indiana 46402**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Source Modification No.: 089-19709-00121

Issued by: Original Signed by
Paul Dubenetzky, Branch Chief
Office of Air Quality

Issuance Date: May 2, 2005

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SECTION A

SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the emission units contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary steel mill.

Responsible Official:	Manager
Source Address:	One North Broadway Street, Gary, Indiana 46402
Mailing Address:	One North Broadway Street, Gary, Indiana 46402
General Source Phone Number:	(219) 888-3387
SIC Code:	3312
County Location:	Lake County
Source Location Status:	Nonattainment for ozone under the 1-hour and 8-hour standard Primary non-attainment for SO ₂ Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD or Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units and pollution control devices:

- (a) This project consists of reconfiguring the fuel supply piping at the four (4) slab reheat furnaces at the 84-inch Hot Strip Mill to enable the firing of coke oven gas, in conjunction with natural gas, above and below the slabs in the heating zones of each furnace.
Currently, only the pre-heat and soak zones are able to burn coke oven gas. By enabling the conversion from natural gas to coke oven gas, there will be a reduction in the source operating costs because the coke oven gas, a byproduct of the coke-making process, is produced at the source while the natural gas is purchased from off-site sources. However, the maximum coke oven gas flow capability to the four (4) slab reheat furnaces will remain limited by the supply header to 1.044 MMSCF per hour.
- (b) The furnaces and the associated burners will not be modified, and there is no increased utilization or increased capacity in processes either upstream or downstream of the furnaces. The project is intended to increase the actual consumption of by-product coke oven gas (which is currently flared or burned at the plate mill), and decrease the actual consumption of purchased natural gas at the reheat furnaces.

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

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SECTION B GENERAL CONSTRUCTION CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

B.2 Effective Date of the Permit [40CFR 124]

Pursuant to 40 CFR 124.15, 40 CFR 124.19, and 40 CFR 124.20, the effective date of this permit will be thirty-three (33) days after issuance.

B.3 Revocation of Permits [326 IAC 2-2-8]

Pursuant to 326 IAC 2-2-8(a)(1), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of eighteen (18) months or more.

B.4 Significant Source Modification [326 IAC 2-7-10.5(h)]

This document shall also become the approval to operate pursuant to 326 IAC 2-7-10.5(h) when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section, verifying that the emission units were constructed as proposed in the application. The emissions units covered in the Significant Source Modification approval may begin operating on the date the affidavit of construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emissions units differs from the construction proposed in the application, the source may not begin operation until the source modification has been revised pursuant to 326 IAC 2-7-11 or 326 IAC 2-7-12 and an Operation Permit Validation Letter is issued.
- (c) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (d) The Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.
- (e) In the event that the Part 70 application is being processed at the same time as this application, the following additional procedures shall be followed for obtaining the right to operate:
 - (1) If the Part 70 draft permit has not gone on public notice, then the change/addition covered by the Significant Source Modification will be included in the Part 70 draft.
 - (2) If the Part 70 permit has gone through final EPA proposal and would be issued ahead of the Significant Source Modification, the Significant Source Modification will go through a concurrent 45 day EPA review. Then the Significant Source Modification will be incorporated into the final Part 70 permit at the time of issuance.
 - (3) If the Part 70 permit has gone through public notice, but has not gone through final EPA review and would be issued after the Significant Source Modification is issued, then the Modification would be added to the proposed Part 70 permit, and the Title V permit will issued after EPA review.

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B.5 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

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SECTION C

GENERAL OPERATION CONDITIONS

C.1 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

C.2 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) when operation begins, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for the unit.

C.3 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

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- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

C.4 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Fugitive Dust Emissions [326 IAC 6-1-11.1]

Pursuant to 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

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- (h) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
- (i) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
- (j) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (k) Any facility or operation not specified in 326 IAC 6-1-11.1(d) shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan.

C.7 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted by using good engineering practices (GEP) pursuant to 326 IAC 1-7-3.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

If required by Section D, all monitoring and record keeping requirements shall be implemented when operation begins. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.12 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

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- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or

Telephone Number: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(i) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency

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provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.14 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (ll) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a "major modification" (as defined in 326 IAC 2-2-1 (ee) or 326 IAC 2-3-1 (z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1 (rr) and 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:
- (1) Prior to commencing the construction of the "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (ll)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project;
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project;
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:

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- (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and 326 IAC 2-3-1(mm)(2)(A)(3); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.15 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and 326 IAC 2-3-1 (ll), at an existing emissions unit and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

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- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and 326 IAC 2-3-1 (qq) for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

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SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) This project consists of reconfiguring the fuel supply piping at the four (4) slab reheat furnaces at the 84-inch Hot Strip Mill to enable the firing of coke oven gas, in conjunction with natural gas, above and below the slabs in the heating zones of each furnace. Currently, only the pre-heat and soak zones are able to burn coke oven gas. By enabling the conversion from natural gas to coke oven gas, there will be a reduction in the source operating costs because the coke oven gas, a byproduct of the coke-making process, is produced at the source while the natural gas is purchased from off-site sources. However, the maximum coke oven gas flow capability to the four (4) slab reheat furnaces will remain limited by the supply header to 1.044 MMSCF per hour.
- (b) The furnaces and the associated burners will not be modified, and there is no increased utilization or increased capacity in processes either upstream or downstream of the furnaces. The project is intended to increase the actual consumption of by-product coke oven gas (which is currently flared), and decrease the actual consumption of purchased natural gas at the reheat furnaces.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Lake County PM₁₀ Emission Requirements [326 IAC 6-1-10.1]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM₁₀ Emission Requirements), for the 84-inch hot strip mill continuous slab reheat furnaces, the particulate emissions are limited as follows:

Emission Unit	Heat Input Limit (lb/MMBTU)	Emission Limit (lb/hour)
Each stack serving the 84-inch hot strip mill slab reheat furnaces (four (4) units)	0.017	40.80 (total)

D.1.2 Lake County Sulfur Dioxide (SO₂) Emission Limitation [326 IAC 7-4-1.1]

Pursuant to 326 IAC 7-4-1.1(c)(22)(G)(iv), the fuel supplied to the four (4) reheat furnaces (coke oven gas, fuel oil, and natural gas) shall not result in a sulfur dioxide emission rate exceeding four hundred forty-seven thousandths (0.447) pounds per million Btu actual heat-input.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.3 Record Keeping Requirements

- (a) The Permittee shall keep records and report in accordance with source obligation in 326 IAC 2-3-2 and 326 IAC 2-2-8 and as described in Conditions C.14 and C.15.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit.

D.1.4 Reporting Requirements

Within thirty (30) days of the occurrence of an exceedance of the applicable limit under conditions D.1.1 or D.1.2, the Permittee shall submit a report containing the following:

- (a) Facility identification;
- (b) Date or time period of occurrence;
- (c) Nature of exceedance;

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- (d) PM10 and sulfur dioxide emission rate in pounds per hour and pounds per million British Thermal Unit, total fuel usage of each type;
- (e) Cause of exceedance; and
- (f) Corrective action taken.

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 SOURCE MODIFICATION
CERTIFICATION

Source Name: U. S. Steel – Gary Works
Source Address: One North Broadway Street, Gary, Indiana 46402
Mailing Address: One North Broadway Street, Gary, Indiana 46402
Source Modification No.: 089-19709-00121

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this approval.

Please check what document is being certified:

- • Test Result (specify) _____
- • Report (specify) _____
- • Notification (specify) _____
- • Affidavit (specify) _____
- • Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204
Phone: 317-233-5674
Fax: 317-233-5967

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: U. S. Steel – Gary Works
Source Address: One North Broadway Street, Gary, Indiana 46402
Mailing Address: One North Broadway Street, Gary, Indiana 46402
Source Modification No.: 089-19709-00121

This form consists of 2 pages

Page 1 of 2

- • This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

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